

IDI Composites E-205 Thermoset Polyester, Sheet

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

ELECTRICAL - U.L. recognized (E53587). Versatile family of compounds designed to meet the most demanding electrical and electronic applications. Excellent dielectric properties and arc/track resistance. Designed to meet critical impulse and corona specifications. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IDI-Composites-E-205-Thermoset-Polyester-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	
Water Absorption	0.11 %	0.11 %	in 24 hours; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 41	35 - 41	ASTM D2583
Tensile Strength, Ultimate	97.0 MPa	14100 psi	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	8.90 J/cm	16.7 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 Â°C	>= 500 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.2 kV/mm	361 kV/in	ASTM D149
Arc Resistance	>= 180 sec	>= 180 sec	ASTM D495

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